IN THE CLAIMS

Please replace all prior versions of the claims with the following claim set:

- 1-71. (cancelled)
- 72. (currently amended) The method of claim 71, wherein the resin comprises A method for forming a polymer foam, the method comprising combining
 - (a) an epoxy-based resin polymer resin capable of reacting with a curing agent to form the solid polymer binder of the polymer foam,
 - (b) a curing agent for the epoxy-based polymer resin comprising a waterborne polyamine, polyamide or polyamide-amine, and
- (c) a chemical blowing agent comprising at least one sulfonyl hydrazide, and allowing the mixture so made to form the polymer foam at a temperature of about 1° C to about 60° C.
- 73. (previously presented) The method of claim 72, wherein the mixture reacts to form a foam at a temperature of about 1° C to about 40° C.
- 74. (previously presented) The method of claim 73, wherein the mixture reacts to form a foam at a temperature of about 15° C to about 30° C.
- 75. (previously presented) The method of claim 72, wherein the epoxy-based resin is a bisphenol A type epoxy resin.
- 76. (previously presented) The method of claim 72, wherein the epoxy-based resin is a bisphenol F type epoxy resin.
- 77. (previously presented) The method of claim 72, wherein the curing agent comprises an adduct of a transaminated Mannich base.
- 78. (previously presented) The method of claim 72, wherein the curing agent comprises an emulsion of an epoxy adduct of a polyamine.

- 79. (previously presented) The method of claim 78, wherein the epoxy adduct comprises an epichlorhydrin adduct.
- 80. (previously presented) The method of claim 78, wherein the curing agent comprises an emulsion of an epoxy adduct of a polyamide-amine.
- 81. (previously presented) The method of claim 72, wherein the curing agent comprises an emulsion of an epoxy adduct, the epoxy adduct being the reaction product of a poly (alkylene oxide) momoamine or diamine and a di or polyepoxide, which is then reacted with a polyamine or a polyamide, or the reaction product of a poly(alkylene oxide) monoalcohol and a polyepoxide, which is then reacted with a polyamine or a polyamide.
- 82. (previously presented) The method of any of claim 72, wherein the at least one chemical blowing agent is p-toluenesulfonylhydrazide.
- 83. (previously presented) The method of any of claim 72,, wherein the at least one chemical blowing agent is p,p'-oxybis(benzenesulfonylhydrazide).
- 84. (previously presented) The method of claim 72, wherein the sulfonyl hydrazide blowing agent comprises about 0.01% to about 15% by weight of the sum of the weights of the blowing agent, the curing agent, and the binder.
- 85. (previously presented) The method of claim 84, wherein the sulfonyl hydrazide blowing agent comprises about 1% to about 10% of the sum of the weights of the blowing agent, the curing agent, and the binder.
- 86. (previously presented) The method of claim 84, wherein the curing agent comprises about 30% to about 70% by weight of the sum of the weights of the blowing agent, the curing agent, and the binder.
- 87. (previously presented) The method of claim 72, wherein the polymer resin is in the form of a latex when combined with the blowing agent and curing agent.
- 88. (previously presented) The method of claim 72, further comprising introducing at least one fire retardant into the foam.

- 89. (previously presented) The method of claim 88, wherein the fire retardant is selected from the group consisting of phosphates, endothermic fillers, char forming agents, tris(hydroxyethyl)isocyanurates, and polyfunctional alcohols.
- 90. (previously presented) The method of claim 72, further comprising introducing at least one low-density filler into the foam.
 - 91. (previously presented) The method of claim 72, wherein
 - (a) an epoxy-based resin.
 - (b) about 40 to about 60 wt.% of a curing agent for the epoxy based resin comprising an emulsion of an epoxy adduct, the epoxy adduct being the reaction product of a poly (alkylene oxide) momoamine or diamine and a di or polyepoxide, which is then reacted with a polyamine or a polyamide, or the reaction product of a poly(alkylene oxide) monoalcohol and a polyepoxide, which is then reacted with a polyamine or a polyamide, and
- (c) about 1% to about 10% of at least one sulfonyl hydrazide chemical blowing agent, the percents being based on the combined weights of (a), (b) and (c), are combined together and allowed to react at a temperature of about 1° C to about 40° C, thereby forming a foam at this temperature.
 - 92. (previously presented) A foam produced by the method of claim 72.
- 93. (currently amended) The foam of claim 72 92, wherein the foam is formed by spraying a two-component mixture onto a substrate.
 - 94. (previously presented) A fire resistant foam produced by the method of claim 88.
- 95. (previously presented) A method for forming an epoxy-based foam comprising reacting at least one epoxy-based resin, a curing agent for the epoxy-based resin comprising a waterborne polyamine, polyamide or polyamide-amine and a sulfonyl hydrazide chemical blowing agent at a temperature between about 1° C. and about 60° C. to form the epoxy-based foam at this temperature.
- 96. (previously presented) The method of claim 95, wherein reacting occurs at a temperature of about 1° C to about 40° C.

- 97. (previously presented) The method of claim 96, wherein reacting occurs at a temperature of about 15° C to about 30° C.
- 98. (previously presented) A waterborne foamable resin system comprising an epoxy-based resin, a sulfonyl hydrazide chemical blowing agent and a curing agent capable of curing the epoxy-based resin, the system containing sufficient curing agent to react with the sulfonyl hydrazide chemical blowing agent at a temperature of about 1° C to about 60° C thereby enabling the system to form a foam at this temperature.
- 99. (previously presented) The waterborne foamable resin system of claim 98, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 1° C to about 40° C.
- 100. (previously presented) The waterborne foamable resin system of claim 99, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 15° C to about 30° C.
- 101. (previously presented) The waterborne foamable resin system of claim 98 for producing a fire-resistant cured epoxy-based resin foam, the system containing sufficient curing agent to cure the epoxy-based resin and to react with the sulfonyl hydrazide chemical blowing agent at a temperature of about 1° C to about 60° C thereby enabling the system to form a foam at this temperature.
- 102. (previously presented) The waterborne foamable resin system of claim 101, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 1° C to about 40° C.
- 103. (previously presented) The waterborne foamable resin system of claim 102, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 15° C to about 30° C.
- 104. (previously presented) A foam comprising the reaction product of a sulfonyl hydrazide chemical blowing agent, an epoxy resin and a curing agent for the epoxy resin comprising a waterborne epoxy adduct of a polyamine, a polyamide or a polyamide-amine, the curing agent being present in an amount sufficient so that the curing agent can react with the

sulfonyl hydrazide chemical blowing agent at a temperature of about 1° C to about 60° C thereby enabling the foam to form a foam at this temperature.

105. (previously presented) The foam of claim 104, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 1° C to about 40° C.

106. (previously presented) The foam of claim 105, wherein the system contains sufficient curing agent so that the system forms a foam at a temperature of about 15° C to about 30° C.